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Name your contaminant...

Flux residues, machine oils, cutting oils, grease, wax, adhesives, grease pencil, Magic Marker... No soil or contaminant is out of the ordinary for Kyzen.

Name your cleaning application, your cleaning process...

The Kyzen Ionox product line consists of semi-aqueous chemistries for cleaning flux residues, greases, oils, and ionic contaminants. The superior solvency and non-flammable nature of these products make them suitable for use in a wide range of cleaning processes and applications.

Whatever process or processes you are running, there's a Kyzen Ionox formulation matched to your procedure: batch immersion, batch spray, ultrasonics, in-line immersion, bench top and assembly equipment cleaning.

And for whatever cleaning application, there's a Kyzen Ionox formulation for the job: microelectronic hybrids, printed circuit assemblies, surface mount assemblies, stencils and tooling, electrical and electronic components, precision and optical parts or misprinted paste and adhesives.

Ionox cleaning solvents are based on Kyzen alcohol. A simple organic compound, Kyzen alcohol is environmentally-derived from natural organic material or biomass. Its very low vapor pressure (approx. 0.6mm of Hg at 70°F) and a flash point in excess of 180°F, allow many of the Ionox formulations to begin boiling without exhibiting a flash point. Ionox products, like all Kyzen alcohol-based formulations, are easy to use, entirely biodegradable, completely water soluble, and rinseable unlike terpene or hydrocarbon based products.

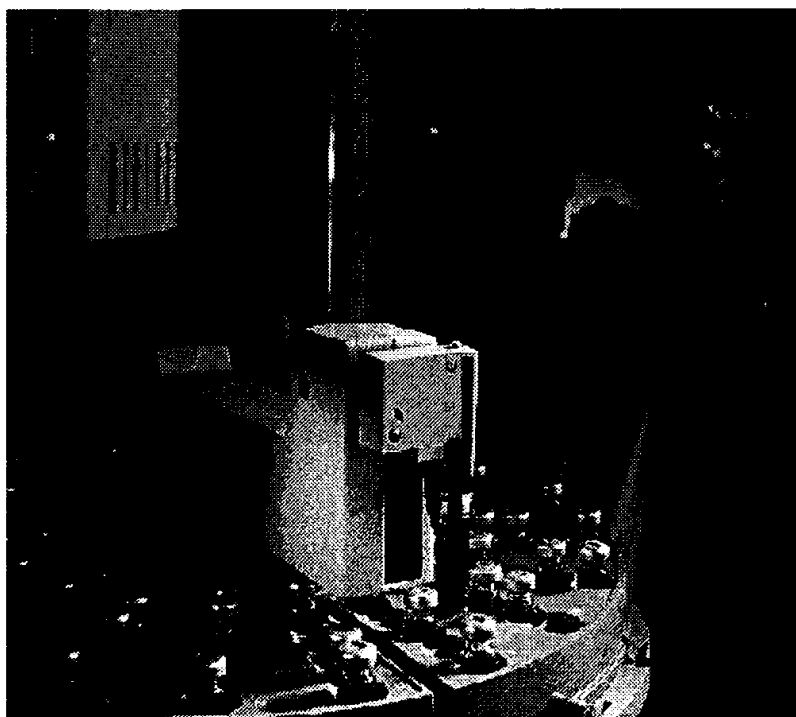
Ionox products are designed to be used full strength. (The Aquanox product line of concentrated cleaners is designed to be diluted with water.) Ionox products clean by solvent action of Kyzen alcohol, and are produced with the highest cleaning

quality standards available.

Like all Kyzen products, the Ionox product array is backed by the company's extensive Cleaning Applications & Evaluation Centers - and with screen printing, reflow, wave soldering, in-line, spray-under immersion, and batch-cleaning capabilities, you can evaluate your complete electronic assembly process in our facility and select the Kyzen chemistry that is most effective for your cleaning application.

The Ionox product line and Kyzen demonstration facilities are augmented and strengthened by our ability to custom-formulate to your specific needs.

Our expert technical support staff will validate and implement a solution for your cleaning problem. And they'll help you accelerate the implementation cycle by testing and getting things right in our Applications Centers before reaching your facility and your machinery.



CLEANING SOLUTIONS

Concentrated organic semi-aqueous solvents

Ionox BC ●

A concentrated cleaning chemistry for removal of difficult soldering fluxes and assembly residues in large area

immersion cleaning or localized bench-top or touch-up cleaning applications. An excellent general-purpose, hand-wipe cleaner.

Ionox FCR

A high strength cleaner for removal of the most difficult soldering fluxes, "no clean" fluxes, and residues from microelectronics, hybrid, and surface mount assemblies, in a variety of cleaning processes -- often without the use of high impingement air sprays or ultrasonic agitation. Complete water solubility makes rinsing easy.

Ionox HC2

A high strength cleaner for removal of difficult soldering fluxes, such as white gum and synthetic resins, water soluble, and "no-clean" fluxes from through-hole, hybrid, and surface mount electronics. Formulated to clean solder joints to a bright, shiny finish without etching. Most effective in ultrasonics cleaning applications. An enhanced version of Ionox HC which is highly rated by NASA & NCMS trade studies.

Ionox I3025

A mild strength cleaner for removal of difficult soldering fluxes, such as white gum rosin, and synthetic resins, water soluble, and "no-clean" fluxes from through-hole, hybrid, and surface mount electronics. Specifically formulated to clean solder joints to a bright, shiny finish without etching.

Ionox I3065

A high strength cleaner for removal of a broad range of RA, "no-clean" fluxes from through-hole, hybrid, and surface mount electronics. Formulated with a series of polar and non-polar solvents.

Ionox I3305

Synthetic alcohol based cleaner with excellent general cleaning capabilities. Effective on fluxes, oils, greases and particulate. Safe on a variety of substrates including plastics.

Ionox I3330

A water miscible and low toxicity solvent compatible with magnetic-coil windings on printed circuit boards. Formulated with a synthetic alcohol, this solvent is effective and safe on a broad range of substrates. Use in spray-under immersion, centrifugal batch, and ultrasonics cleaning systems.

Ionox I3400

A powerful, ultrapure, isoparaffinic hydrocarbon providing

superior solvency, good wetting, and dispersion characteristics. Excellent alternative to isopropyl alcohol for removal of electronics flux, paste, and adhesives. Qualified wiping solvent for DEK and MPM screen printing machines.

Ionox I3412

An enhanced hydrocarbon blend particularly effective in removing adhesives from printed circuit boards in rework applications. Excellent cleaning characteristics; leaves surfaces residue free.

CLEANING AGENTS					
	cleaning application	contaminants removed	operating concentration	operating temp range	flash point
concentrated organic semi-aqueous solvents					
Ionox BC	screen printer cleaner; bench-top & hand-wipe cleaner	"no-clean", white gum rosin, synthetic resin flux cleaner	full	70-100°F	162°F (CC) 172°F (OC)
Ionox FCR	surface mount & hybrid electronics	"no-clean", white gum rosin, synthetic resin flux cleaner	full	120-160°F	164°F (CC) 184°F (OC)
Ionox HC2	through-hole, surface mount & hybrid electronics, controllable with PCS	"no-clean", white gum rosin, synthetic resin, high temp reflow, flux cleaner	full	120-160°F	none to boiling
Ionox I3025	through-hole, surface mount electronics; general purpose	white gum rosin, synthetic resin flux cleaner	full	120-160°F	none to boiling
Ionox I3065	through-hole, surface mount electronics	white gum rosin, synthetic resin flux cleaner	full	120-160°F	none to boiling
Ionox I3305	electronics assembly, plastics, hand-wipe cleaner, IPA alternative	electronics fluxes, film coatings, oils, greases	full	80-120°F	152°F (CC) 164°F (OC)
Ionox I3330	through-hole, surface mount & hybrid	white gum rosin, activated resin, high temp reflow, and "no-clean" fluxes	full	120-150°F	156°F (CC) 178°F (OC)
Ionox I3400	electronics stencil wipe, hand wipe, IPA alternative	white gum rosin, activated resin flux, solder paste from stencils	full	80-120°F	120°F (CC)
Ionox I3412	electronics stencil wipe, hand wipe, IPA alternative	white gum rosin, activated resin flux, solder paste from stencils	full	80-100°F	114°F (CC) 128°F (OC)
Note: CC=Closed Cup, OC=Open Cup					

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